Recombinant Mouse Mapre1 Protein, Myc/DDK-tagged

Cat. No. Mapre1-3951M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length microtubule-associated protein, RP/EB family, member 1 (Mapre1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes cytoplasmic microtubule nucleation and elongation. May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes. Also acts as a regulator of minus-end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement. Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules. Acts as a regulator of autophagosome transport via interaction with CAMSAP2. May play a role in cell migration
Molecular Mass	30 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Mapre1 microtubule-associated protein, RP/EB family, member 1 [Mus musculus (house mouse)]
Official Symbol	Mapre1
Synonyms	MAPRE1; microtubule-associated protein, RP/EB family, member 1; microtubule-associated protein RP/EB family member 1; end-binding protein 1; APC-binding protein EB1; adenomatosis polyposis coli binding protein Eb1; Eb1; BIM1p; AI462499; AI504412; AW260097; D2Ertd459e; 5530600P05Rik
Gene ID	13589
mRNA Refseq	NM_007896
Protein Refseq	NP_031922
UniProt ID	Q61166

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